United States Department of Agriculture Grain Inspection, Packers and Stockyards Administration Federal Grain Inspection Service

Program Notice

FGIS PN-03-01

5-01-03

SAMPLE COLLECTION RESPONSIBILITIES FOR VERIFYING THE ACCURACY OF MOISTURE METER CALIBRATIONS CROP YEAR 2003

1. PURPOSE

This program notice transmits revised assignments for collecting samples needed for verifying the accuracy of official moisture meter calibrations. It also restates the procedure for collecting and submitting samples

2. BACKGROUND

The annual Moisture Meter Calibration Study is conducted on current year crop samples to assess the accuracy of the official inspection system and of NTEP-certified moisture meters. FGIS moisture meter calibrations must be verified over the working moisture ranges, significant production areas, and multiple crop years. Each year, the evaluation is performed on samples submitted to the Inspection Systems Engineering Branch (ISE) from the field offices. After moisture testing, the samples are made available to other programs in the Technical Services Division.

Sample collection assignments for the respective offices are based on crop production within the geographic areas of responsibility. In some cases, additional assignments in the stable moisture ranges are given to export locations. Also, the quotas for corn and Hard Red Winter wheat in the 14-18 percent moisture range are increased slightly to provide enough samples for the NTEP testing program.

It is understood that all requested moisture levels may not be available in all areas every year. Since a wide moisture range is very important to the study, field offices should make all reasonable efforts to provide the requested number of samples in each moisture range. However, extraordinary actions are not expected.

3. EFFECTIVE DATE

This program notice is effective upon receipt for the 2003 crop production. Wheat samples should be submitted by September 15, sunflower samples by November 15, and all other grain samples by November 1, 2003. Processed rice production is not strictly

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seasonal, as is grain production, so the testing and implementation dates are more flexible. Processed rice samples should be submitted by February 28, 2004.

4. REPLACEMENT HIGHLIGHTS

This program notice supersedes FGIS PN 02-05, dated May 22, 2002.

5. RESPONSIBILITIES

The collection and submission of samples for the annual Moisture Meter Calibration Study are considered regular duties of the selected field offices. All associated time will be charged to the field office standardization management code.

6. ASSIGNMENTS FOR SELECTED FIELD OFFICES

During the 2003 growing season, the indicated numbers of samples of the commodities listed in Table 1 (Attachment 2) must be collected, tested for moisture, and submitted by the respective field offices to ISE. Each sample should weigh approximately 1500 grams.

7. INSTRUCTIONS

- a. The purpose of this effort is to obtain representative samples from the entire nation. Therefore, it is important to have each office fill its quota at all moisture levels, if possible. However, do not submit extra samples in any moisture range, and do not adjust the moisture level of samples by adding water or by drying in the laboratory.
- b. Samples with moisture levels slightly beyond the established moisture ranges are useful in calibrating the extreme ends of the calibrations and extending the measurement ranges. For this reason, the ranges of requested samples (Table 1) have been extended slightly beyond established limits. When submitting samples, if the moisture falls outside the range of the applicable GAC 2100 calibration or Motomco 919 moisture chart, obtain an approximate moisture. The true moisture will later be determined at ISE by air oven.
- c. If dockage is removed for inspection purposes, do not recombine it before submitting the sample.
- d. Significant amounts of time and effort are invested in collecting and submitting the moisture samples. This investment can easily be lost through insect damage, microbial spoilage, or late sample submission. To prevent such loss, please

collect the samples during the growing season and at harvest time and submit them promptly. Then, the remaining time until the closing date is still available for submitting those samples which are difficult to obtain.

Samples above 16 percent moisture (14% for sunflower seeds and 11% for minor oilseeds) require special handling. A significant number of high-moisture samples are routinely lost by spoilage due to unexpected delays in transportation. To minimize this loss, use the following precautions:

- (1) Keep high moisture samples refrigerated (<u>not frozen</u>) until shipped. Hold them no longer than 1 week before shipping.
- (2) Ship high-moisture samples by Federal Express (or the current FGIS contract carrier) at least 48 hours before a weekend/holiday.
- e. An easy way to account for samples submitted is to prepare mailing tags for the total number of samples of each commodity to be collected. Write on the back of each tag the commodity and moisture range. When all of the mailing tags are used, the required number of samples have been submitted.
- f. Some offices have inquired why sample test weight is requested on the mailing tag. Most dielectric moisture meters have a built-in test weight correction. These corrections need to be checked using external test weight data. For clean samples of sufficient volume, test weight will be determined by ISE so it is not necessary to record test weight on the mailing tag. However, some submitted samples are too small to fill the kettle. For such samples, please record the test weight on the tag (or transmittal slip) if it is known.
- g. Questions concerning these instructions should be directed to James Rampton, telephone (816) 891-0450, or Patricia Jackson (816) 891-0445. If there is a special problem with a sample assignment, please notify the Moisture Laboratory, ISE, by telephone as early in the season as possible.

h. Seal each sample in a polyethylene bag (6 mil thickness). Insert the bag into a canvas grain bag. When shipping several samples in a larger container (box or mail sack), a canvas grain bag around each poly bag is still needed to prevent the poly bags from breaking in transit. Record the field office location, date, commodity, official meter moisture, and test weight (if sample size is limited) on the back of the mailing tag accompanying the sample. (If preferred, the transmittal form [Attachment 1] may be used and shipped with the sample. Insert the transmittal form between the poly bag and the canvas grain bag.) Attach the mailing tag to the bag. Send samples to:

USDA-GIPSA-FGIS Technical Center Technical Services Division Moisture Laboratory 10383 N. Ambassador Drive Kansas City, MO 64153-1394

/s/David Orr

David Orr, Director Field Management Division

Attachments

Moisture Sample Transmittal Form	Moisture Sample Transmittal Form
Field Office Use Only:	Field Office Use Only:
OFFICE MOISTURE	OFFICE MOISTURE
DATE TEST WT	DATE TEST WT.
COMMODITY	COMMODITY
ISE Use Only: Date Received	ISE Use Only: Date Received
Moisture Sample Transmittal Form	Moisture Sample Transmittal Form
Field Office Use Only:	Field Office Use Only:
OFFICE MOISTURE	OFFICE MOISTURE
DATE TEST WT	DATE TEST WT.
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ISE Use Only: Date Received	ISE Use Only: Date Received
Moisture Sample Transmittal Form	Moisture Sample Transmittal Form
Field Office Use Only:	Field Office Use Only:
OFFICE MOISTURE	OFFICE MOISTURE
DATE TEST WT	DATE TEST WT.
COMMODITY	COMMODITY
ISE Use Only: Date Received	ISE Use Only: Date Received

Table 1. Sample collection assignments, 2003 Crop Year

1. Barley, Six-Rowed	Office	<u>7-11</u>		<u>ure Rar</u> 14-17	nge (%) 17-21	All		
	California	2	2	2	2	8		
	Grand Forks	7	7	7	7	28		
	Minneapolis	3	3	3	2	11		
	Moscow	3	3	3	2	11		
	Toledo	3	3	3	2	11		
					nge (%)			
2. Barley, Two-Rowed	Office	<u>7-11</u>	<u>11-14</u>	<u>14-17</u>	<u>17-21</u>	<u>All</u>		
	Grand Forks	4	4	3	3	14		
	Moscow	10	10	10	10	40		
	Washington	4	4	4	4	16		
				Moist	ure Ran	ge (%)		
3. Corn	Office	<u>7-11</u>	<u>11-14</u>		<u>18-22</u>			All
	Cedar Rapids	10	10	14	10	9	9	62
	Grand Forks	4	4	6	4	3	2	23
	Kansas City	6	7	10	6	6	6	41
	League City	2	2	2	1	1	1	9
	Minneapolis	6	7	9	7	7	6	42
	New Orleans	2	3	3	0	0	0	8
	Stuttgart	3	3	4	3	2	2	17
	Toledo	9	9	12	8	6	5	49
	Wichita	7	7	10	6	6	6	42
				ıre Ran				
4. Oats		<u>7-11</u>	<u>11-14</u>	<u>14-17</u>	<u>17-21</u>	<u>All</u>		
	Cedar Rapids	5	5	5	5	20		
	Grand Forks	7	8	7	7	29		
	Minneapolis	10	10	10	10	40		

5. Rough Rice,	Office	<u>7-11</u>	<u>All</u>				
Long Grain	League City New Orleans	4 5	4 5	4 5	3 5	3 4	18
	Stuttgart	10	10	10	9	9	24 48
			M	oistura	Range	(%)	
6. Rough Rice, Medium Grain	Office	<u>7-11</u>			18-22		<u>All</u>
Wicalam Gram	California New Orleans	11 2	11 2	11 1	10 1	10 1	53 7
	Stuttgart	6	6	6	6	6	30
			M	oisture	Range	(%)	
7. Sorghum	Office	<u>7-11</u>			18-22		All
	Kansas City League City	3 5	4	3 5	3 5	3 4	16 25
	New Orleans	2	2	0	0	0	4
	Stuttgart	3	3	2	2	1	11
	Wichita	5	5	5	5	5	25
			Moistu	ıre Ran	ge (%)		
8. Soybeans	Office	<u>7-11</u>	11-14			<u>All</u>	
	Cedar Rapids Grand Forks	12 6	12 6	11 6	11 5	46 23	
	Kansas City	8	8	8	8	32	
	League City	2	2	0	0	4	
	Minneapolis	8	8	8	7	31	
	New Orleans	2	2	0	0	4	
	Stuttgart	5	6	5	5	21	
	Toledo	10	10	9	8	37	
	Wichita	6	6	6	5	23	

0		0.00		= 10			ge (%)		
9.	Sunflower Seed, Oil Type	Office	<u>4-7</u>	<u>7-10</u>	<u>10-14</u>	<u>14-18</u>	<u>18-22</u>	<u>22-26</u>	<u>All</u>
	On Type	Grand Forks	16	16	16	16	16	15	95
		Wichita	6	6	6	6	6	5	35
				Moistr	ıre Ran	ge (%)			
10.	Wheat, Durum	Office			14-17		All		
	,								
		California	5	5	5	5	20		
		Duluth	2	2	0	0	4		
		Grand Forks	10	10	10	10	40		
		Moscow	4	4	4	4	16		
				Moietr	ıre Ran	ge (%)			
11	Wheat, Hard Red	Office					A 11		
11.	Spring	Office	0-11	11-14	<u>14-17</u>	1/-21	<u>All</u>		
	Spring	Duluth	2	2	0	0	4		
		Grand Forks	8	8	8	8	32		
		Minneapolis	4	4	4	4	16		
		Moscow	4	5	4	4	17		
		Washington	2	2	2	1	7		
		w asimigton	2	2	2	1	,		
				Moistu	ire Ran	ge (%)			
12.	Wheat, Hard Red Winter	Office	<u>7-11</u>	11-14	<u>14-17</u>	<u>17-21</u>	<u>All</u>		
	,, <u>1110</u>	California	2	3	3	2	10		
		Grand Forks	3	3	4	2	12		
		Kansas City	3	4	4	2	13		
		League City	3	3	3	1	10		
		Moscow	2	2	4	1	9		
		Washington	1	1	1	0	3		
		Wichita	8	8	11	7	34		

13. Wheat, Hard White	Office	<u>6-11</u>	<u>11-14</u>	<u>14-17</u>	<u>17-21</u>	<u>All</u>
	California	9	9	9	8	35
	Moscow	8	8	7	7	30
	Wichita	3	3	2	2	10
			Mois	sture Rar	ngo (9/)	
14. Wheat, Soft Red Winter	Office	<u>6-11</u>	<u>11-14</u>	14-17	17-21	<u>All</u>
VV IIICI	Cedar Rapids	2	2	2	2	8
	Kansas City	2	3	3	2	10
	New Orleans	3	3	2	2	10
	Stuttgart	4	4	4	3	15
	Toledo	6	6	6	5	23
			Mois	sture Rar	nge (%)	
15. Wheat, Soft White	Office	<u>7-11</u>	11-14	<u>14-17</u>	17-21	<u>All</u>
	Moscow	6	6	6	5	23
	Portland	2	2	0	0	4
	Toledo	3	4	3	3	13
	Washington	8	8	6	6	28
			Mois	sture Rar	nge (%)	
16. Beans, Pink	Office	7-11	11-14	14-17	17-21	All
,						
	California	1	2	2	1	6
	Duluth	3	4	3	3	13
	Grand Forks	3	3	3	3	12
	Moscow	5	5	5	5	20
	Washington	4	4	4	3	15
	Wichita	0	2	0	0	2

17.	Beans, Small Red	Office	<u>7-11</u>	Mois 11-14	ture Rar 14-17	nge (%) 17-21	All
		Duluth Grand Forks	1 2	2 3	1 3	1 2	5 10
		Moscow Toledo	5 2	6	5	5 2	21 10
		Washington	4	4	4	4	16
		Wichita	0	2	0	0	2
				Mois	ture Rar	nge (%)	
18.	Beans, Small White	Office	<u>7-11</u>	11-14	14-17	17-21	<u>All</u>
		Moscow	10	10	9	9	38
		Washington	6	6	5	5	22
				3.6.1		(0/)	
10	Mustard Seed,	Office	5-7	<u>Mois</u> 7-9	ture Rar 9-12	12-15	<u>All</u>
1).	Brown	Office	<u>3-1</u>	<u>1-7</u>	<u>)-12</u>	12-13	<u>A11</u>
		Grand Forks	6	6	6	6	24
		Moscow	5 2	5 2	4 2	4	18
		Washington	2	2	2	2	8
				Mois	sture Rar	nge (%)	
20.	Mustard Seed, Oriental	Office	<u>5-7</u>	<u>7-9</u>	9-12	12-15	<u>All</u>
	Oriental	Grand Forks	6	6	6	6	24
		Moscow	5	5	4	4	18
		Washington	2	2	2	2	8
				Mois	sture Ran	nge (%)	
21.	Mustard Seed,	Office	<u>5-7</u>	<u>7-9</u>	9-12	12-15	All
	Yellow	Grand Forks	6	6	6	6	24
		Moscow	5	5	4	4	18
		Washington	2	2	2	2	8

			Mois	sture Rar	nge (%)		
22. Peas, Austrian Winter	Office	<u>7-11</u>	<u>11-14</u>	<u>14-17</u>	<u>17-21</u>	All	
	Grand Forks	2	2	2	2	8	
	Moscow	13	13	13	13	52	
				sture Rar			
23. Peas, Split	Office	<u>7-11</u>	<u>11-14</u>	<u>14-17</u>	<u>17-21</u>	<u>All</u>	
	Grand Forks	2	2	2	2	8	
	Moscow	7	6	6	6	25	
	Washington	9	9	9	8	35	
			Mois	sture Rar	nge (%)		
24. Peas, Wrinkled Dry	Office	<u>6-9</u>	<u>9-12</u>	<u>12-16</u>	16-20	<u>All</u>	
	Grand Forks	2	2	2	2	8	
	Moscow	7	7	7	6	27	
	Washington	9	8	8	8	33	
	w asimigton	9	0	O	0	33	
			Mois	sture Rar	nge (%)		
25. Popcorn	Office	10-12	12-14	14-17	17-20	<u>All</u>	
23. Торсон	Office	10 12	12 11	1117	17 20	<u>7 X 11</u>	
	Kansas City	4	4	4	4	16	
	Stuttgart	5	5	5	5	20	
	Toledo	2	2	2	2	8	
	Wichita	4	4	4	4	16	
				Moisture	Range (<u>%)</u>	
26. Triticale	Office	<u>6-8</u>	<u>8-10</u>	<u>10-12</u>	<u>12-14</u>	<u>14-16</u>	<u>All</u>
	California	2	2	2	2	2	10
	Grand Forks	6	6	6	6	6	30
	Moscow	4	4	4	4	4	20
	Washington	2	2	2	2	2	10

27. Rice, Brewers	Office	<u>9-12</u>	Mois 12-14	ture Ran 14-17	nge (%) 17-20	All
Milled (Parboiled)	League City Stuttgart	5 10	5 10	5 10	5 10	20 40
			3.6 :		(0./)	
28. Rice, Medium Grain	Office	<u>9-11</u>	11-13	13-15	15-17	<u>All</u>
Brown	California League City New Orleans Stuttgart	5 3 3 3	5 3 3 3	5 3 3 3	5 3 3 3	20 12 12 12
			Mois	ture Ran	nge (%)	
29. Rice, Medium Grain	Office	<u>9-11</u>	11-13	13-15	15-17	<u>14-16</u>
Milled	California League City New Orleans Stuttgart	5 3 3 3	5 3 3 3	5 3 3 3	5 3 3 3	20 12 12 12
			Mois	ture Ran	nge (%)	
30. Rice, Medium Grain Milled (Coated)	Office	<u>9-11</u>	<u>11-13</u>	<u>13-15</u>	<u>15-17</u>	<u>All</u>
wined (Coaced)	California	6	6	6	6	24
			Mois	sture Ran	nge (%)	
31. Rice, Medium Grain	Office	<u>9-12</u>	12-14	14-17	17-20	<u>All</u>
Brown (Parboiled)	League City Stuttgart	5 10	5 10	5 10	5 10	20 40
			Mais	utura Dan	nga (9/)	
32. Rice, Medium Grain	Office	<u>9-12</u>	12-14	14-17	17-20	<u>All</u>
Milled (Parboiled)	League City Stuttgart	5 10	5 10	5 10	5 10	20 40
	5 -	-	Page 7	-	-	-

33. Rice, Screenings Milled	Office	<u>9-11</u>	<u>11-13</u>	<u>13-15</u>	<u>15-17</u>	<u>All</u>
William	California	5	5	5	5	20
	Stuttgart	10	10	10	10	40
				ture Ran	ge (%)	
34. Rice, Second Head Milled	Office	<u>9-11</u>	<u>11-13</u>	<u>13-15</u>	<u>15-17</u>	<u>All</u>
1,111,00	California	10	10	10	10	40
	Stuttgart	10	10	10	10	40
			Mois	ture Ran	ge (%)	
35. Rice, Second Head	Office	<u>9-12</u>	<u>12-14</u>			<u>All</u>
Milled (Parboiled)	League City	5	5	5	5	20
	Stuttgart	10	10	10	10	40
			Mois	ture Ran	ge (%)	
36. Rice, Short Grain	Office	<u>9-11</u>		,	<u>15-17</u>	<u>All</u>
Brown	California	10	10	10	10	40
	Stuttgart	2	2	2	2	8
	-					
			Moist	ture Ran	ge (%)	
37. Rice, Short Grain	Office	<u>9-11</u>	11-13	13-15	15-17	<u>All</u>
Milled	California	10	10	10	10	40
	Stuttgart	2	2	2	2	8
	\mathcal{L}					